

Product datasheet

AAV8 VP2, recombinant protein

Short overview

Cat. No.	640840
Quantity	10 µg
Concentration	100 µg/ml (1.45 µM)

Product description

Formulation	Liquid, 6 M urea in PBS
Source	Escherichia coli
Molecular Weight	68.9 kDa (calculated Mw from aa sequence)
Purity	> 95% (determined by SDS PAGE)
Product description	N-terminal His-tagged (MGSSHHHHHSSGLVPRGSH) recombinant AAV8 capsid protein VP2
Purification	Ni-NTA chromatography
Storage	-80°C
Intended use	Research use only
Application	Dot blot, SDS PAGE, WB

Applications

Dot Blot	100 ng, depending on primary antibody and detection method
SDS PAGE	1 µg
Western Blot (WB)	5-20 ng, depending on primary antibody and detection method

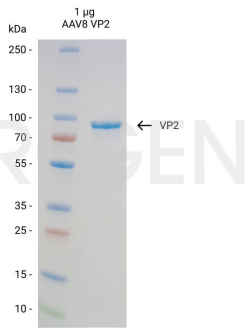
Background

The AAV capsid consists of three capsid proteins, i.e. VP1, VP2 and VP3, which differ in their N-terminus and encapsulate the genomic ssDNA. In native virus particles, the three proteins form subunits with a ratio of 1:1:10 (VP1:VP2:VP3), in a total number of 60 subunits per capsid. The recombinant AAV8 VP2 protein in combination with recombinant AAV8 VP1 (Cat. No. 640839) and recombinant AAV8 VP3 (Cat. No. 640841) can be used to create a mixture with the precise molar ratio of 1:1:10 to compare the protein composition of the viral capsid in your sample by protein detection methods, e.g. western blot. All three recombinant AAV8 capsid proteins are available as a set (Cat. No. 72008) or as individual proteins (Cat. No. 640839, 640840, 640841). Note: please find an example how to prepare western blot samples in the pipetting scheme below. Aliquots of the remaining samples can be stored at -80°C for reuse.

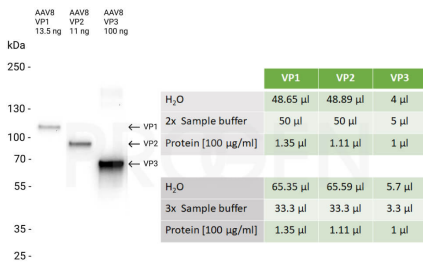
Product images



AAV8 VP2, recombinant protein



SDS PAGE analysis to evaluate the purity of the AAV8 VP2 (Cat. No. 640840). To perform SDS PAGE analysis, 1 µg of protein was diluted in 10 µl PBS and sample buffer and denatured at 95°C for 5 min. The sample was loaded onto a 4-20% gradient gel (40 min at 200 V). Afterwards, the gel was stained for 1 h at RT with Coomassie solution and destained with water. The purity of AAV8 VP2 is > 95%.



Pipetting scheme for western blot analysis using the AAV8 capsid proteins (Cat. No. 640839, 640840, 640841) in separate lanes. To analyze the molar ratio of 1:1:10, it is recommended to load VP1, VP2 and VP3 as described in the pipetting scheme above. Therefore, the indicated volumes of the proteins (concentration 100 µg/ml) should be diluted with the appropriate amount of sample buffer and distilled water. 10 µl of each solution can be separately loaded onto the SDS PAGE and analyzed by Western blot using the B1 antibody (Cat. No. 690058, Cat. No. 61058-488, Cat. No. 61058-647).